

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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ATTORNEY DOCKET NO. FIRST NAMED INVENTOR APPLICATION NO. **FILING DATE** MCCARTHY 01/20/98 09/009,802 **EXAMINER** HM12/0928 000959 YUCEL, I LAHIVE & COCKFIELD 28 STATE STREET ART UNIT PAPER NUMBER BOSTON MA 02109 DOCKETED 09/28/99 Ect. 28.1999 ** RESTRICTION REQUIREMENT DATE MAILED: <u>സൂപം മ8,മറാം</u> - ESP/5 MOS

Please find below and/or attached an Office communication concerning this application or proceeding.

please se attached

Commissioner of Patents and Trademarks

RECEIVED
OCT 2.7 2004
OFFICE OF PETITIONS

Office Action Summary

Application No. 09/009,802 Applicant(s)

Examiner

McCarthy

Remy Yucel

Group Art Unit 1636

Responsive to communication(s) filed on Oct 9, 1998	·
This action is FINAL.	
Since this application is in condition for allowance except for f in accordance with the practice under <i>Ex parte Quayle</i> , 1935	formal matters, prosecution as to the merits is closed C.D. 11; 453 O.G. 213.
shortened statutory period for response to this action is set to solve, from the mailing date of this communication. Failure to pplication to become abandoned. (35 U.S.C. § 133). Extension TCFR 1.136(a).	respond within the period for response will cause the
Disposition of Claims	
X Claim(s) 1-60	is/are pending in the application.
Of the above, claim(s)	
Claim(s)	
Claim(s)	
Claim(s)	
X Claims 1-60	are subject to restriction or election requirement.
Application Papers	I have the
☐ See the attached Notice of Draftsperson's Patent Drawing	Review, PTO-948.
☐ The drawing(s) filed onis/are objected	d to by the Examiner.
☐ The proposed drawing correction, filed on	is 🗀 pproved 🗀 disapproved.
☐ The specification is objected to by the Examiner.	
$\hfill\Box$ The oath or declaration is objected to by the Examiner.	
riority under 35 U.S.C. § 119	
Acknowledgement is made of a claim for foreign priority un	nder 35 U.S.C. § 119(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the	the priority documents have been
☐ received.	
received in Application No. (Series Code/Serial Numb	per)
$\hfill\Box$ received in this national stage application from the Ir	nternational Bureau (PCT Rule 17.2(a)).
*Certified copies not received:	·
Acknowledgement is made of a claim for domestic priority	under 35 U.S.C. § 119(e).
Attachment(s)	
☐ Notice of References Cited, PTO-892	
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s)
☐ Interview Summary, PTO-413	•
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	
Notice of Informal Patent Application, PTO-152	
A Notice to Compy Sequence Disclosives + Error Report	

Page 2

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DETAILED ACTION

Claims 1-60 are pending in the application.

Specification

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures and the Raw Sequence Listing Error Report.

Since the response appears to be **bona fide**, but through an apparent oversight or inadvertence failed to provide a complete response, applicant is required to complete the response within a time limit of one (1) month from the date of this letter, 37 CFR 1.135(c).

NO EXTENSION OF THIS TIME LIMIT MAY BE GRANTED UNDER EITHER 37 C.F.R. 1.136(a) OR (b), BUT THE STATUTORY PERIOD FOR RESPONSE SET FOR THIS COMMUNICATION MAILED MAY BE EXTENDED UP TO A MAXIMUM OF SIX (6) MONTHS UNDER 37 CFR 1.136.

Election/Restriction

Restriction to one of the following inventions is required under 35 U.S.C. 121:

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- I. Claims 1-17, drawn to nucleic acids, vectors, host cells and methods of producing CRSP protein, classifiable in class 536, subclass 23.1 and class 435, subclasses 325 and 69.1.
- II. Claims 18 and 19, drawn to a transgenic animal comprising a transgene encodingCRSP, classifiable in class 800, subclass 8.
- III. Claims 20-31, drawn to isolated CRSP proteins and fusion proteins, classifiable in class 530, subclass 350.
- IV. Claims 32-34, drawn to antibodies which specifically bind CRSP, classifiable in class 424, subclass 130.
- Claim 38, drawn to a method of modulating a cell-associated activity by
 stimulating CRSP protein activity or expression classifiable in class 435, subclass
 4.
- VI. Claim 40, drawn to a method of modulating a cell-associated activity by inhibiting CRSP protein activity or expression, using anti-sense, classifiable in class 536, subclass 24.5.
- VII. Claim 41, drawn to a method of modulating a cell-associated activity by inhibiting CRSP protein activity or expression, using an antibody, classifiable in class 424, subclass 130.
- VIII. Claim 44, drawn to a method of treating a subject with a small molecule, classifiable in class 514, subclass 1.

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- IX. Claim 45, drawn to a method of treating a subject with a protein, classifiable in class 514, subclass 2.
- X. Claim 46, drawn to a method of treating a subject with a nucleic acid, classifiable in class 514, subclass 44.
- XI. Claims 50, 51 and 55, drawn to method of detecting for the presence of CRSP activity using nucleic acid, classifiable in class 435, subclass 6.
- XII. Claims 52, 53 and 56, drawn to method of detecting for the presence of CRSP activity using antibodies, classifiable in class 435, subclass 7.1.
- XIII. Claim 59, drawn to an assay for detecting a genetic alteration in a cell, classifiable in class 435, subclass 6.
- XIV. Claim 60, drawn to an assay for detecting a genetic alteration in a cell, classifiable in class 435, subclass 91.

Claims 37 and 42 are generic to groups V, VI and VII.

Claim 39 is generic to groups VI and VII.

Claims 43, 47 and 48 are generic to groups VIII, IX and X.

Claims 49, 54, and 57 are generic to groups XI and XII.

Claim 58 is generic to groups XIII and XIV.

Election of any one of the groups listed immediately above will result in examination of the corresponding generic claim(s).

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The inventions are distinct, each from the other because of the following reasons:

Inventions of groups I-IV are distinct. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different groups are drawn to chemically and biologically distinct products which are not disclosed as capable of use together. For example, the nucleic acids of group I are distinct from proteins and antibodies and transgenic animals of groups II-IV.

Inventions V-XIV are distinct. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different groups are drawn to distinct methods that do not contain the same steps, the methods are not disclosed as capable of use together and the methods all have different functions. For example, the method of claim V is a method of modulating a cell-associated activity by stimulating CRSP protein activity or expression; whereas the methods of groups VI and VII are drawn to methods of modulating a cell-associated activity by inhibiting CRSP protein activity or expression by using chemically distinct products, specifically, antisense nucleic acids and antibodies. Groups VIII-X are drawn to methods of treating an individual and have different functions and effects from the methods of V-VII. Groups XI and XII are drawn to methods of detecting CRSP protein activity in a biological sample and have different functions and effects from methods of modulating a cellular activity (V-VII) and methods of treating an individual (VIII-X). Finally, groups XIII and

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XIV are drawn to diagnostic methods to detect a genetic alteration and have different functions and effects from methods of modulating a cellular activity (V-VII), methods of treating an individual (VIII-X) and methods of detecting CRSP protein activity in a biological sample (XI and XII).

The product of group I may be used in the distinct methods of groups V, VI, X, XI, XIII and XIV. The product of group II is not disclosed as capable of use with any of the methods of groups V-XIV. The product of group III may be used in the distinct methods of groups VIII and IX and the product of group IV may be used in the distinct methods of groups VIII and XIII. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the same product may be used in materially different processes such as methods of modulating a cellular activity and methods of diagnosing a genetic alteration (both are performed with the product of group I). Conversely, a method for modulating a cellular activity may be performed with antisense molecules (group I) or with an antibody or a protein (groups IV and III, respectively). Thus, the instant inventions are distinct.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter and as shown by

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their different classification and because the searches required for the groups are not coextensive, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Conclusion

Certain papers related to this application may be submitted to Art Unit 1636 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 CFR § 1.6 (d)). The Group 1600 FAX numbers are (703) 308-4242 or (703) 305-3014. Unofficial faxes may be sent to the examiner at (703) 305-7939. NOTE: If applicant *does* submit a paper by fax, the original signed copy should be retained by Applicant or Applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Remy Yucel, Ph. D. whose telephone number is (703) 305-1998. The examiner can normally be reached on Monday through Fridays from 8:30 am to 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. George Elliott can be reached at (703) 308-4003.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

REMY YUGEL PH.D PATENT EXAMINER

Remy Yucel, Ph. D. September 27, 1999

Application No. 009802 NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPROPATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

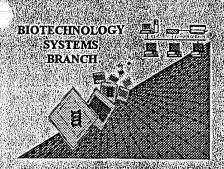
The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 -1.825 for the following reason(s): This application clearly fails to comply with the requirements of 37 CFR 1.821 - 1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990. 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c). 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e). A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing." The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d). The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e). 7. Other: -Applicant must provide: An initial or substitute computer readable form (CRF) copy of the "Sequence Listing" ${f A}$ n initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d) For questions regarding compliance with these requirements, please contact:

For Rules Interpretation, call (703) 308-1123

For CRF submission help, call (703) 308-4212

For PatentIn software help, call (703) 557-0400

分優人 <u>RAW SEQUENCE LISTING</u> ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/009 802 A

Art Unit / Team No. /636

Date Processed by STIC 9/13/19 Date Processed by STIC

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY BITHER.

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or.
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THIEM WILL BE ERROR FREE

IF YOU HAVE ANY FURTHER QUESTIONS PLEASE CALL

MARK SPENCER 708-308-4212

Raw Sequence Listing Error Summary

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ATTN	: NEW RULES CASES: P	LEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
•••	Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line.
		This may occur if your file was retrieved in a word processor after creating it.
		Please adjust your right margin to .3, as this will prevent "wrapping".
	Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line.
		This may occur if your file was retrieved in a word processor after creating it.
		Please adjust your right margin to .3, as this will prevent "wrapping".
	Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.
	Misaligned Amino Acid	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
	Numbering	between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
	Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
		Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
	Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue.
		As per the rules, each n or Xaa can only represent a single residue.
	**	Please-present the maximum number of each residue having variable length and
		indicate in the (ix) feature section that some may be missing.
	Patentlin ver. 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid
	,	sequence(s) Normally, Patentin would automatically generate this section from the
		previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
		to the subsequent amino acid sequence.
	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
	(OLD RULES)	(2) INFORMATION FOR SEQ ID NO:X:
		(I) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
		(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
		This sequence is intentionally skipped
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
	(NEW RULES)	<210> sequence id number
i		<400> sequence id number 000
U		Use of n's and/or Xaa's have been detected in the Sequence Listing.
	(NEW RULES)	Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
		In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
	Use of <213>Organism	Sequence(s) are missing this mandatory field or its response.
	(NEW RULES)	
	Use of <220>Feature	Sequence(s) are missing the <220>Feature and associated headings.
	(NEW RULES)	Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
		Please explain source of genetic material in <220> to <223> section.
		(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
	Patentin ver. 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted
		file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
		Instead, please use "File Manager" or any other means to copy file to floppy disk.
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JI Yucel

RAW SEQUENCE LISTING

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PATENT APPLICATION US/09/009,802A

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sup.5,1

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PATENT APPLICATION US/09/009,802A

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            cgaacactga actctacgcc actccacaaa tgatgttttc aggtgtcatg gactgttgcc 2317
109
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110
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111
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      <211> LENGTH: 350
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121
                                              25
                         20
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122
123
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                                          40
124
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125
                                      55
                                                          60
126
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127
                                 70
                                                      75
128
            Ala Ser Ser Glu Val Asn Leu Ala Asn Leu Pro Pro Ser Tyr His Asn
129
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                                                  90
130
            Glu Thr Asn Thr Asp Thr Asn Val Gly Asn Asn Thr Ile His Val His
131
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                        100
132
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133
                                         120
            Ser Glu Thr Val Ile Thr Ser Val Gly Asp Glu Glu Gly Arg Arg Ser
134
135
                                     135
                                                         140
136
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137
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138
            Phe Ala Ser Phe Gln Tyr Thr Cys Gln Pro Cys Arg Gly Gln Arg Met
139
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                                                 170
140
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141
                        180
                                                                 190
142
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143
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Asp Asn Gln Arg Asp Cys Gln Pro Gly Leu Cys Cys Ala Phe Gln Arg

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/009,802A DATE: 09/13/1999 TIME: 12:48:44 GE:

Input Set: I009802A.RAW

145			210				*	215					220					
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147		225					230					235					240	
148	,	Cys	His	Asp	Pro	Ala	Ser	Arg	Leu	Leu	Asp	Leu	Ile	Thr	Trp	Glu	Leu	
149						245					250					255		
150		Glu	Pro	Asp	Gly	Ala	Leu	Asp	Arg	Cys	Pro	Cys	Ala	Ser	Gly	Leu	Leu	
151					260					265					270			
152		Cys	Gln	Pro	His	Ser	His	Ser	Leu	Val	Tyr	Val	Cys	Lys	Pro	Thr	Phe	
153				275					280					285				
154		Val	Gly	Ser	Arg	Asp	Gln	Asp	Gly	Glu	Ile	Leu	Leu	Pro	Arg	Glu	Val	
155			290					295					300					
156		Pro	Asp	Glu	Tyr	Glu	Val	Gly	Ser	Phe	Met	Glu	Glu	Val	Arg	Gln	Glu	
157		305					310					315					320	
158		Leu	Glu	Asp	Leu	Glu	Arg	Ser	Leu	Thr	Glu	Glu	Met	Ala	Leu	Arg	Glu	
159						325					330					335		
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168	<222>	LOC	OITA	1: (:	1)	(105))											
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171		Met	Gln	Arg	Leu	Gly	Ala	Thr	Leu	Leu	Cys	Leu	Leu	Leu	Ala	Ala	Ala	
172		1				5					10				-	15		
173		gtc	ccc	acg	gcc	CCC	gcg	CCC	gct	ccg	acg	gcg	acc	tcg	gct	cca	gtc	96
174		Val	Pro	Thr	Ala	Pro	Ala	Pro	Ala	Pro	Thr	Ala	Thr	Ser	Ala	Pro	Val	
175					20					25					30			
176		aag	CCC	ggc	ccg	gct	ctc	agc	tac	ccg	cag	gag	gag	gcc	acc	ctc	aat	144
177		Lys	Pro	Gly	Pro	Ala	Leu	Ser	Tyr	Pro	Gln	Glu	Glu	Ala	Thr	Leu	Asn	
178				35					40					45				
179		gag	atg	ttc	cgc	gag	gtt	gag	gaa	ctg	atg	gag	gac	acg	cag	cac	aaa	192
180		Glu	Met	Phe	Arg	Glu	Val	Glu	Glu	Leu	Met	Glu	Asp	Thr	Gln	His	Lys	
181			50					55					60					
182		ttg	cgc	agc	gcg	gtg	gaa	gag	atg	gag	gca	gaa	gaa	gct	gct	gct	aaa	240
183		Leu	Arg	Ser	Ala	Val	Glu	Glu	Met	Glu	Ala	Glu	Glu	Ala	Ala	Ala	Lys	
184		65					70					75					80	
185		gca	tca	tca	gaa	gtg	aac	ctg	gca	aac	tta	cct	ccc	agc	tat	cac	aat	288
186		Ala	Ser	Ser	Glu	Val	Asn	Leu	Ala	Asn	Leu	Pro	Pro	Ser	Tyr	His	Asn	
187	•					85					90					95		
188		gag																336
189		Glu																
190					100					105					110			
191		cga	gaa	att	cac	aag	ata	acc	aac	aac	cag	act	gga	caa	atg	gtc	ttt	384
192		Arg	Glu	Ile	His	Lys	Ile	Thr	Asn	Asn	Gln	Thr	Gly	Gln	Met	Val	Phe	
193				115					120					125				
194		tca	gag	aca	gtt.	atc	aca	tct	gtg	gga	gac	gaa	gaa	ggc	aga	agg	agc	432

RAW SEQUENCE LISTING DATE: 09/13/1999 GE: 5

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195		Ser	Glu	Thr	Val	Ile	Thr	Ser	Val	Gly	Asp	Glu	Glu	Gly	Arg	Arg	Ser	
196			130					135					140					
197		cac	gag	tgc	atc	atc	gac	gag	gac	tgt	ggg	CCC	agc	atg	tac	tgc	cag	480
198	•	His	Glu	Cys	Ile	Ile	Asp	Glu	Asp	Cys	Gly	Pro	Ser	Met	Tyr	Cys,	${ t Gln}$	
199		145					150					155					160	
200			_	-											cag			528
201		Phe	Ala	Ser	Phe	Gln	Tyr	Thr	Cys	Gln	Pro	Cys	Arg	Gly	Gln	Arg	Met	
202	ż					165					170					175		
203															tgt			576
204		Leu	Cys	Thr	Arg	Asp	Ser	Glu	Cys	_	Gly	Asp	Gln	Leu	Cys	Val	Trp	
205					180					185					190			
206															acc			624
207		Gly	His	_	Thr	Lys	Met	Ala		Arg	GIY	Ser	Asn		Thr	IIe	Cys	
208				195					200					205		~~~	. ~ .	C72
209															ttc			672
210		Asp		GIN	Arg	Asp	Cys	215	Pro	GIY	Leu	Cys	220	Ald	Phe	GIII	Arg	
211		~~~	210		++-	aat	~+~		202	000	ata	000			ggc	aza	att	720
212 213															Gly			720
213		225	пец	Leu	FILE	FLO	230	Cys	1111	110	пец	235	Val	GIU	G-Y	OIU	240	
215			cat	gac	ccc	acc		caa	ctt	cta	gac		at.c	acc	tgg	σασ		768
216															Trp			
217	=	012				245		3			250				_	255		
218		gag	cct	qat	qqa	qcc	tta	gac	cqa	tqc	cct	tqt	qcc	aqt	ggc	ctc	ctc	816
219		-		_		_	_								Gly			
220				_	260			-	_	265		_			270			
221		tgc	cag	ccc	cac	agc	cac	agc	ctg	gtg	tat	gtg	tgc	aag	ccg	acc	ttc	864
222		Cys	Gln	Pro	His	Ser	His	Ser	Leu	Val	Tyr	Val	Cys	Lys	Pro	Thr	Phe	
223				275					280					285				
224															aga			912
225		Val	Gly	Ser	Arg	Asp	${ t Gln}$	Asp	Gly	Glu	Ile	Leu	Leu	Pro	Arg	Glu	Val	
226			290					295					300					
227															cgc			960
228			Asp	Glu	Tyr	Glu		Gly	Ser	Phe	Met		Glu	Val	Arg	GIn		
229		305					310					315					320	1000
230															ctg			1008
231		Leu	GIU	Asp	Leu		Arg	ser	ьеu	Thr	330	GIU	Met	Ата	Leu	335	GIU	
232			~~~	~at	~~~	325	gct	~~~	ata	ata		200	722	asa.	2 + +	222		1050
233 234							Ala											
234		PIO	Ата	мта	340	ALG	AIG	мта	пси	345	Gry	n-9	GLU	014	350			
236	<210>	SEO	TD N	το 4	340					J 1.J								
237	<211>	-						,										
238	<212>																	
239	<213>				omo s	apie	ens											
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241	<221>				os						•							
242	<222>					(79	96)											
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244		gaat	tcgg	gca d	gaga	agaco	ga co	jtgct	gago	tg:	cago	tta	gtgg	aago	tc t	gcto	tgggt	. 60
Please !	Vote:			_							,	*	-			,	TU	Γ
Use of r	and/or	Xaa l	nave t	een d	etecte	d in t	he Sc	quenc	e List	ing.	Pleas	e revi	cw the	2		4	1)-	 -
Sequence	ce Listin	g to cr	nsure	that	corr	cspon	ding (explar	ation	is pr	esente	ed in t	be <	220>	lo	_		

Use of n and/or Xna have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY PATENT APPLICATION US/09/009,802A

DATE: 09/13/1999 TIME: 12:48:44

Input Set: I009802A.RAW

e ? Error/Warning

Original Text

90 W "N" or "Xaa" used: Feature required

caatagaaat agctaattta tttccccang tgtgtgct

42 W "N" or "Xaa" used: Feature required

accccatttn attctagagt cnagaacgca aggatctc

87 W Invalid/Missing Amino Acid Numbering